

Fig. 3

Diagram of a Western blot using chicken antibodies against MP121

- 1: E. Coli cells transformed with pBP4MP121His under reducing conditions (1% β-mercaptoethanol)
- 2: Cell culture supernatant of NIH-3T3 cells after infection with recombinant viruses (with inserted MP121 cDNA) under reducing conditions (1% β-mercaptoethanol)
- 3: Cell culture supernatant of NIH-3T3 cells after infection with recombinant viruses (with inserted MP121 cDNA) under non-reducing conditions
- M: prestained protein molecular weight markers having the stated apparent molecular weights (Gibco BRL #26041-020)

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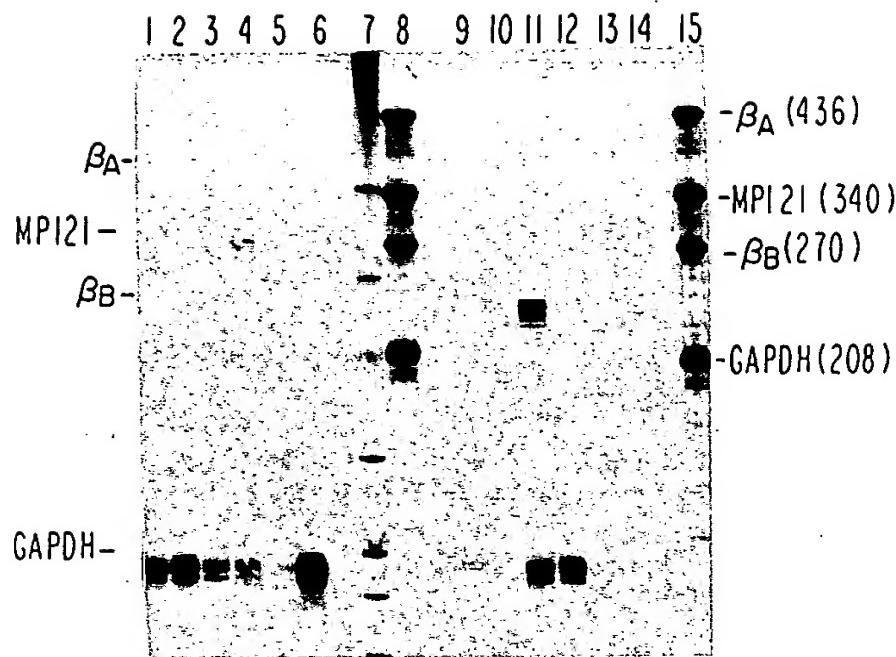


Fig. 4

Autoradiogram after gel analysis of a RNase protection assay using specific probes against activin  $\beta$ A( $\beta$ A), activin  $\beta$ B( $\beta$ B), MP121 and against GAPDH for the control.

Total RNA was tested which had been isolated from various mouse tissues (1: brain, 2: heart, 3: kidney, 4: liver, 5: lung, 6: muscle, 9: ovary, 10: spleen, 11: testes), from embryonic stem cells (12: CJ7) and from yeast (lane 13) as a control. No RNA was used in lane 14 as a control. The unprotected antisense RNA probes used for the hybridization are applied in lanes 8 and 15 and the expected fragment size is indicated in brackets in the right margin. The bands of the protected fragments are labelled in the left margin. pBR322 restricted with Map I (Biolabs #303) and end-labelled with  $^{32}$ p-ATP (Amersham) was used as the marker (lane 7).

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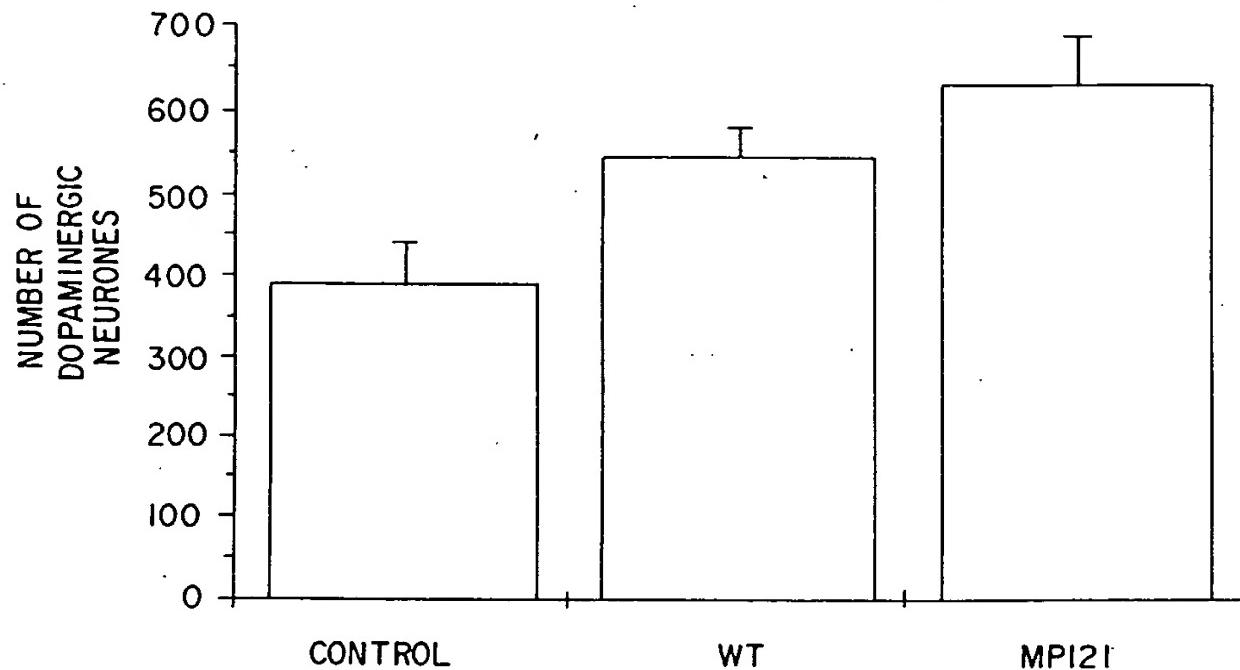


Fig. 5

Shows the number of TH-immunoreactive dopaminergic neurones surviving after isolation from the mesencephalon of rat embryos (E14) after 8 days culture. The effect of 20 ng/ml partially purified MP121 was tested compared to the equivalent amount of partially purified control supernatant (wt) as well as untreated neurones (control: medium containing 0.3% acetonitrile). The mean  $\pm$  SEM from a triple determination is shown.

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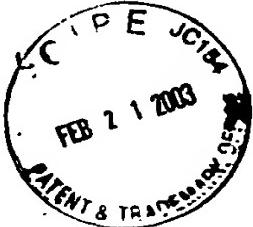
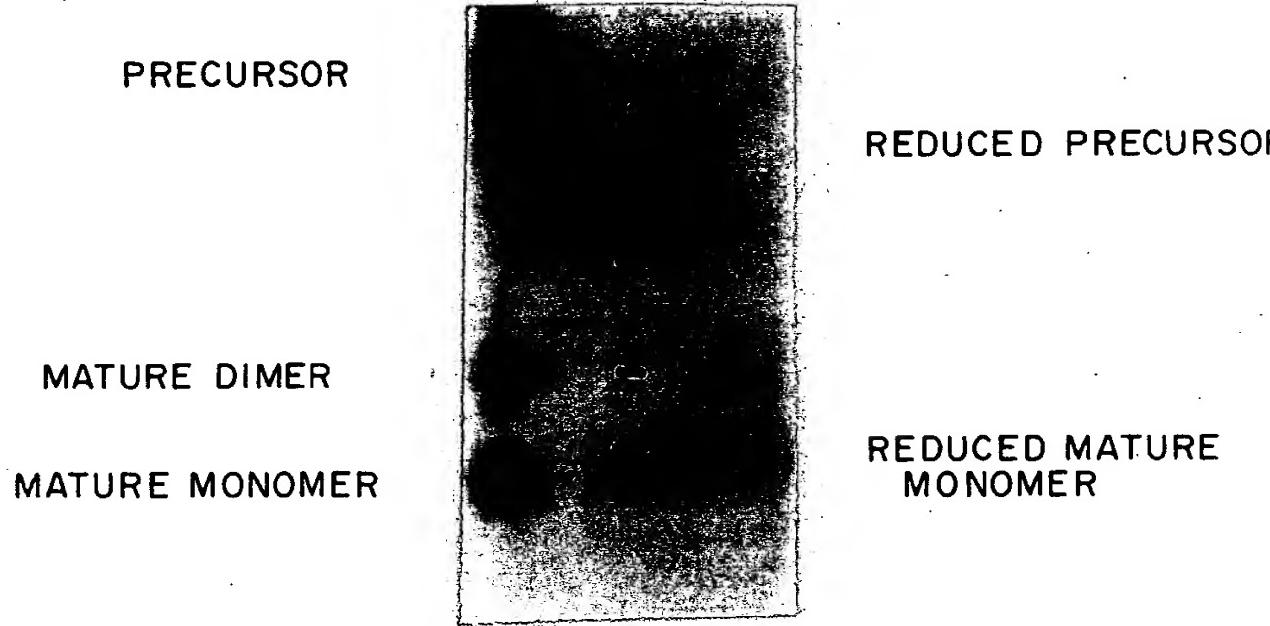


Fig. 6

1 2 3 4 5



~~WESTERN BLOTH USING RABBIT ANTIBODIES AGAINST HUMAN MP121~~

- ~~1: CELL CULTURE SUPERNATANT OF HepG2 CELLS AFTER INFECTION WITH RECOMBINANT VIRUSES ( WITH INSERTED MP121 cDNA) UNDER NON REDUCING CONDITIONS~~
- ~~2: CELL CULTURE SUPERNATANT OF HepG2 CELLS AFTER INFECTION WITH WILDTYPE VIRUSES UNDER NON REDUCING CONDITIONS~~
- ~~3: PRESTAINED PROTEIN MOLECULAR WEIGHT MARKER HAVING THE APPARENT MOLECULAR WEIGHTS OF 15,5 / 18,2 / 27,8 / 43,8 / 71,5 kD ( GIBCO BRL # 26041-020), INDICATED SCHEMATICALLY~~
- ~~4: CELL CULTURE SUPERNATANT OF HepG2 CELLS AFTER INFECTION WITH RECOMBINANT VIRUSES ( WITH INSERTED MP121 cDNA) UNDER REDUCING CONDITIONS~~
- ~~5: CELL CULTURE SUPERNATANT OF HepG2 CELLS AFTER INFECTION WITH WILDTYPE VIRUSES UNDER REDUCING CONDITIONS~~

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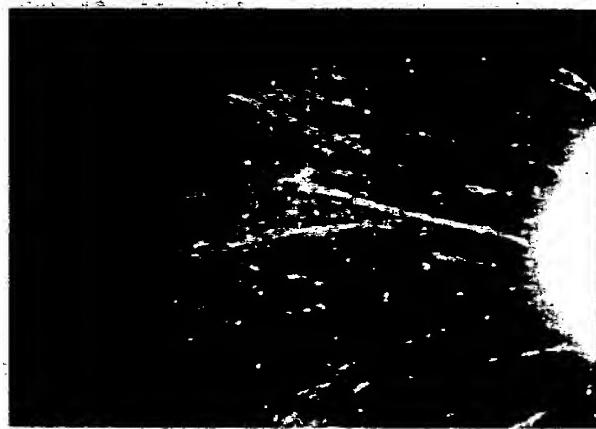
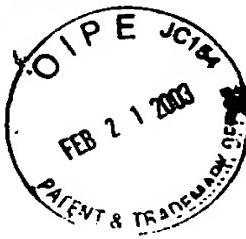


Fig. 7

Nerve fibre outgrowth from explanted chicken retina after 4 days in culture in the presence of 5 ng/ml partially purified MP121. Dark-field microscopy of living cultures.

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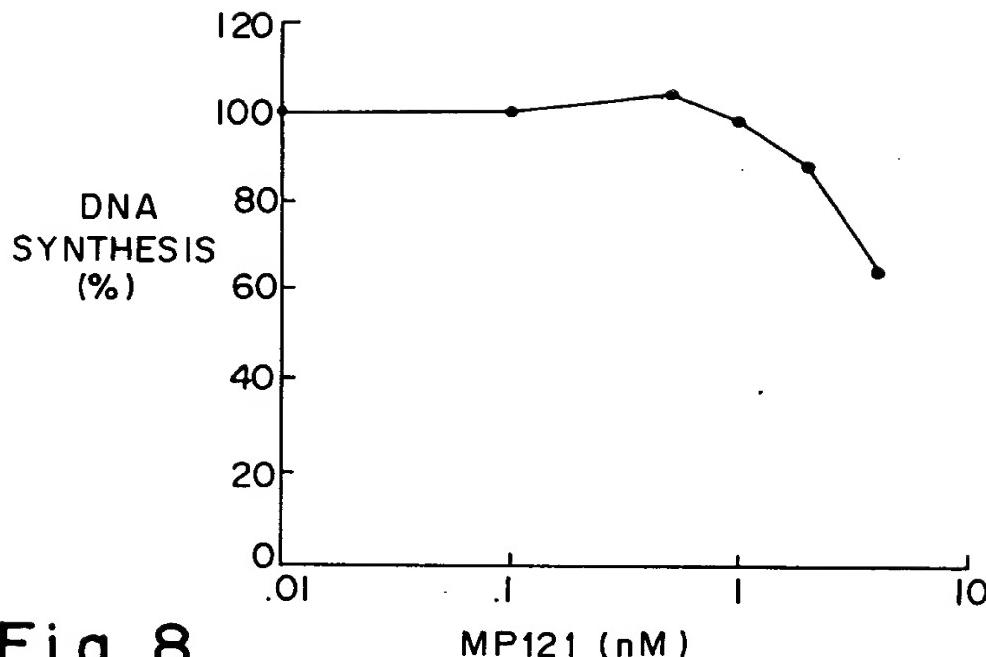


Fig. 8

Effect of various concentrations of partially purified MP121 on EGF induced DNA synthesis in hepatocytes

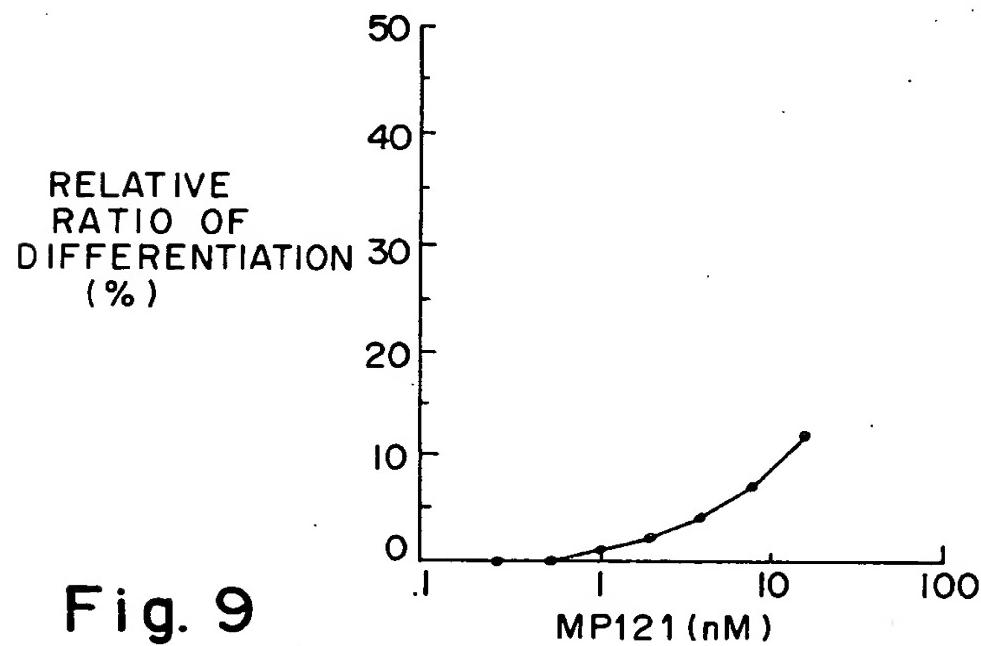


Fig. 9

Effect of various concentrations of partially purified MP121 on erythroid differentiation measured by the percentage of dianisidine positive cells.

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